

Cement, Concrete, and Aggregates

Table of Contents

Volume 15, 1993

No. 1, Summer

A Rapid Method for Measuring the Acid-Soluble Chloride Content of Powdered Concrete Samples—RICHARD E. WEYERS, MICHAEL BROWN, IMAD L. AL-QADI, AND MARK HENRY	3
Use of Fly Ash in Heat-Cured Concrete and the Effect of Post-Curing Storage Regimes on Strength, Modulus of Elasticity, and Freezing-Thawing Durability—PETER M. GIFFORD, BRIAN W. LANGAN, AND MICHAEL A. WARD	14
Effect of Three Zeolite-Containing Natural Pozzolanic Materials on Alkali-Silica Reaction—HONG WANG AND JACK E. GILLOTT	24
Evaluation of the Statistical Significance of a Regression and Selection of the Best Regression Using the Coefficient of Determination R^2 —GILLES CHANVILLARD, J. PETER JONES, AND PIERRE-CLAUDE AITCIN	31
Use of Dynamic Nondestructive Test Methods to Monitor Concrete Deterioration Due to Alkali-Silica Reaction—R. NARAYAN SWAMY AND W. M. RAYMOND WAN	39
Effects of Testing Rate and Age on ASTM C 1018 Toughness Parameters and Their Precision for Steel Fiber-Reinforced Concrete—COLIN D. JOHNSTON	50
Evaluation of Cylinder Size and Capping Method in Compression Strength Testing of Concrete—MICHAEL F. PISTILLI AND TERRY WILLEMS	59
A Comparison of Two Methods for Measuring the Chloride Ion Permeability of Concrete—RACHEL J. DETWILER AND CHRIS A. FAPOHUNDA	70
Observations on Rubberized Concrete Behavior—NEIL N. ELDIN AND AHMED B. SENOUCI	74
<i>Technical Note:</i> Development of Precision and Bias Statements for Testing Drilled Cores in Accordance with ASTM C 42—GLEN E. BOLLIN	85
<i>Technical Note:</i> Mortar Workability Apparatus: A New Approach—STEWART W. TRESOUTHICK, VAL S. DUBOVOY, AND JOHN W. GAJDA	89
<i>Testing Forum</i>	93

No. 2, Winter

Aggregate Mixtures for Least-Void Content for Use in Polymer Concrete—V. V. L. KANTHA RAO AND S. KRISHNAMOORTHY	97
SYMPOSIUM ON CURRENT TRENDS IN CEMENT STANDARDS	
Introduction to Symposium on Current Trends in Cement Standards—LESLIE J. STRUBLE	108
Portland Cement Specifications: Performance, Prescription, and Prediction—EUGENE D. HILL, JR. AND GEOFFREY FROHNSDORFF	109
Why Performance Standards for Hydraulic Cement?—RONALD F. GEBHARDT	119
Importance of Precision Statements in Developing Performance Standards for Cement—TERRY PATZIAS	124
Analysis of a Canadian Database of Mortar-Cube Strengths: The Move Towards a Canadian Performance Standard for Portland Cement—ROBERT L. DAY	128
Cement Strength and Concrete Strength—An Apparition or a Dichotomy?—RICHARD D. GAYNOR	135
European (EN) and World (ISO) Standards—Comparison with ASTM Standards—PIERRE DUTRON	145
International Development of Standards for Cements—PETER J. JACKSON AND JOHN M. LAWTON	149
Blended Cement According to ENV 197 and Experiences in Germany—MICHAEL SCHMIDT, KLAUS HARR, AND RAYMUND BOING	156
The Special Features of Cement Standards in China—TONG SANDUO	165
The New Cement Standard in Australia—Its Implication and Further Development—SAMIA GUIRGUIS	170
<i>Technical Note:</i> A Summary of the Results of Laboratory Inspections Conducted by the Cement and Concrete Reference Laboratory—RAYMOND M. KOLOS AND PAUL C. BURNS	174
<i>Testing Forum</i>	184
<i>Index</i>	187